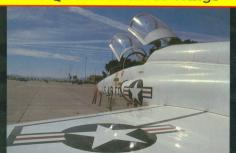
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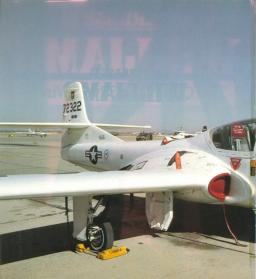
WILLIAMS

The Quest For Silver Wings



Philip Handleman

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The Quest For Silver Wings



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My thanks go to the dedicated personnel who showed me how a sprawling pilot training facility like Williams Air Force Base can smoothly and efficiently accomplish its critical ongoing mission. Those people to whom I am ever so grateful include: Capt Linda Britt, Lt Rockford 'Rocky' Willett, TSgt Bob Tucker. Sot Mike Richmond, A1C Ken Hawkins, A1C Eric Parnell, Arlene Enfield, Lori Boleriack, Sqt Jeff Drazil, Lt Col Bill Fuller, Lt W I Morgan, SrA Alice Glick, Lt Jason Mogle, Tom McCov, Capt Amy Brandon, Lt Bruce Desautels, Lt Paul Gates. Lt Gretchen Krueger, MSgt Nathaniel Daggs, Capt Bernard Mater, MSgt Tom Trent, A1C Christine Campbell, Lt Col Ronald Diedrichs, SSqt Nigel Beckford, Lt Andy Hurling, Sat Eric Prothe, Sat Tony Harris, Capt Frank Gebert, Capt Scott Chapman, Lt Col Russ Allen, Sqt Scott Diprofio, Lt Mark Mitchell, SSqt Edward Terhune, Lt Sandra Graves, Lt Col Michael Perry, Capt Kenneth Lang, SMSqt John Baker, Sqt Dennis Williams, Col Ronald Smith, Col Bernard 'Jerry' Stecklein, Lt Col John Callen, and Capt Sammie Grizzle. While I would not have been able to undertake this project without the help of everyone mentioned here. I am, of course, the one who is responsible for the content of this book.

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Front cover With the azure blue skies forming a breathtaking backdrop, a gleaming T-38 Talon sits on the Williams ramp awaiting instructor and pupil

Back cover His bulky parachute firmly strapped to his torso, a student pilot begins the delicate job of squeezing into the small T-37 cockpit

Title pages Rows of aged but effective Cessna T-37 primary jet trainers grace the Williams Air Force Base parking ramp

Right This curvaceous North American F-86 is a reminder of Williams Air Force Base's past. In the 1950s, Sabres were used at Williams for fighter gunnery training. This pedestal-mounted example at the main entrance to the base is encircled by the colourful flacts of the 50 states. indicating the presence of students from every part of the country. The aircraft is dedicated to Air Force nilots killed in Korea

To the young men and women in quest of silver wings



Introduction

Nestled in the Valley of the Sun on the southeast periphery of the expanding Phoenix metroplex is a pilot factory. Williams Air Force Base, or "Willie" as the locals call it, is the western world's largest undergraduate pilot training facility—producing about 380 of the world's finest pilots each year.

Named after Charles Linton Williams, an Arizona-born US Army pilot who perished in a flying accident during the 1920s, Willie traces its beginnings as a training site to the summer of 1941. It seemed increasingly likely to policy planners in the Army Air Force that the war in Europe and Asia would soon enoulf the US, and that incredible numbers of new pilots would be required in short order for the maximum effort to thwart the hostile foreign forces. Once the US entered World War 2, Willie personnel, with a heightened sense of urgency, began flight training even before construction was completed. Today, after having graduated over 25,000 students, that same spirit of motivation is evident everywhere at Willie

Being at the forefront of change and innovation is a Willie specialty. A group of talented Willie pilos formed the Air Force's fair jet aerobatic demonstration team using P-00 Shooting Stars. This hearty band of aerial performers continued wowing airlinove performers continued wowing airlinove brought an abrupt halt to their public derringdo. The Acrojets, as they were called, set the stage for the Air Force's permanent air demonstration team, known to millions throughout the world as the Thunderbirds. In the 1940s Willie became the first Air Force base to institute jet pilot training. In 1977 Willie graduated the Air Force's first women pilots, now a common course for the corriect

now a common occurrence for the service. For today's visitor. Willie's environment is at first dominated by the unbearably loud and virtually endless shrieks of the T-37 and T-38 training aircraft. As the day unfolds, the next obvious environmental factor is the oppressive heat; in summer ambient temperatures typically rise to over 100 degrees Fahrenheit. In these conditions—united by a love of aviation-ground crews, instructor pilots and students, indeed, the whole sprawling infrastructure of Williams Air Force Base, focus on the critical goal of filling Air Force cockpits with the best qualified flyers. After a gruelling one-year training programme that results in some young officers being washed out, the successful students receive their silver wings and go on to challenging flying assignments.

A contagious enthusiasm permeates Willie as is surely the case at ATC's other officers undergraduate pilot training bases for here is where bright and idealated young officers where bright and idealated young officers of the pilot of the pilot of the pilot of the pilot of fly. In their noble quest, the students engage in an unusual camarderie that is refreshing to behold. As one enters through the main gate, the baggage of the everyday world is he baggage of the everyday world is also with the pilot of the pilot of white as a loyally and dedication as a found intext and thriving. Willie is an inspiring place.

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WELCOME TO WILLIE





The Talon

After mastering basic aviator skills in the relatively tame T-37, Air Force student pilots move up to the Northrop T-38 Taion supersonic trainer. The Taion is a hot aeroplane, and the consensus seems to be if you can handle one of these then you can fly anything in the Air Force inventory.







 $\mathbf{Left}\,\mathrm{Fresh}\,\mathrm{out}\,\mathrm{of}\,\mathrm{the}\,\mathrm{washrack}\,\mathrm{this}\,\mathrm{sparkling}\,\mathrm{T}\text{-}38\,\mathrm{glistens}\,\mathrm{in}\,\mathrm{the}\,\mathrm{Arizona}\,\mathrm{sun}$

Above Each T-38 gets attentive care from dedicated ground crews who go to great lengths to ensure the airworthiness of the Williams aircraft. Here a T-38's canopy gets a thorough polish







Left A student on one of his first hops in a Talon performs a meticulous walkaround preflight check, the standard procedure for every flight. Students who make it through the primary phase of flight training can expect to log about 109 hours in the T-38

Above Williams Air Force Base made history in 1977 when it graduated the first female pilots into the modern US Air Force. Today it is common to see not only women students but also women instructors. One of those instructors, sporting a G-suit and strapped to a forty pound parachute, climbs into the rear cockpit (the instructor's offsee) of a T-38

Overleaf Student and instructor communicate through intercom microphones in their respective oxygen mask assemblies. Instruments are checked for proper readouts before taxiing. The instructor in the rear cockpit is perched slightly higher to allow for improved forward visibility









Top set Once the checkist is completed and all systems are go, the T-38 taxies out of its parking spot on the huge Williams tarmac, fetching a fond wave from the aeroplane's crew chief

Bottom left The ambient midday temperatures in Arizona's Valley of the Sun, as the greater Phoenix area is known, commonly exceed 90 degrees Fahrenheit. Accordingly, the training aircraft such as this T-38 normally taxi with canopies raised. The aircraft air conditioning systems are effective only when airborne

Above Formation flying in the T-38 is an integral part of pilot training at Williams. The T-38, with two J85-GE-5 afterburning engines, is a powerful and responsive aeroplane that can climb to 30,000 feet in one minute



Here four Talons from the 97th Flying Training Squadron (FTS) rendezvous to formation practice. The usually clear desert sky is ideal for Williams flight operations







Above in formation flight, the T-38s may get as close as three feet apart in terms of their wingtip separation. The success of formation flight depends a great deal on the steadiness of the team leader and the constant alertness of the wingmen

Right The all-white Talon paint scheme, helpful for sighting during night flight, stands out against the magnificant buckskin terrain below. In the lead is the 97th FTS Commander's aeroplane, recognizable by the special tail marking that includes the squadron number, followed by aeroplanes from each of the squadron's student flights as denoted by the different colour fin stripes







The sleek and slender lines of the attractive T-38 are apparent as this four-ship formation streaks over the beautifully rugged and sharply defined landscape of







Left The T-38's underside planform view is clearly evident as this wondrous training aircraft passes overhead during a routine series of touch-and-goes on one of the three parallel runways at Williams

Above The T-38 is one of the more strikingly handsome aircraft in the Air Force inventory with its long nose, sleek fuselage, and short span wings. During a normal approach to landing, flaps are extended as is the case here



Above Shortly before the outbreak of World War 2, a barren stretch of Arizona desert was chosen as the location for Williams Air Force Base in large measure because of the desert's consistently good weather. Blue skies often frame T-38s like this one on final approach at Williams

Right Typically, on weekdays there is hardly a moment at Williams when trainers are not in the traffic patients of the three runways. The continual flow of traffic, engaged for the most part in executing touch-and-goes, makes Williams an extremely busy air base. Here a T-36 clears the outer perimeter fence just before landing.





The moment of truth Milli-seconds before sound-down co-ordination is the key. Because the 7.38 has the high minimum handing speed of 158 knots, some of the students find it difficult to control on landing. Purhaps in no other phase of the undergraduates plot training course is so much skill required, last the right inputs of control sitck and throttle are called for in bringing the Talon back to earth. Not surprisingly, this aspect of the training course is sometimes a stumbling block for students who have made it through the preliminary hurcles in the earty next of the finds to proraman.



This view of the T-38 cockpit conveys a sense of the cramped quarters. The knobs atop the control stick are visible in the foreground. The bottoms of the rudder pedals can be seen below the instrument panel. On the right is a red banner stached to a safety pin that prevents inadvertent operation of an ejection device









Up close, the instrument panel presents a straightforward layout of flying gauges and ungine dials. The artificial horizon in the centre and at the top of the panel dominates. The modern Air Force places substantial emphasis on instrument flight, so students have to develop proficiency flying 'under the hood'







Left Talons were first delivered to the US Air Force in [18]1, the final airframe delivery taking place in 1872. Considering the age of this increat they and it heavy use, it is a credit to the designers and builders as well as the maintenance crew that it continues to notifier on so effectively in its demanding role. Regularly scheduled maintenance is performed on all the aircraft. Depending on the aircraft secumination of fight hours and its service history it may be virtually disassembled, with appropriate parts repaired or replaced, and then pieced back topeday.

Above A key to the success of the outstanding flight safety record of these old aeroplases at Williams is the pride the maintenance crews take in their job. In the price of the price of

Overleaf Indicative of the high standards applied by the Williams maintenance crews is the fact that even the maintenance hangar floor is kept very clean









The General Electric [85, GE-5] afterburning engine, capable of producing 3850 pounds of thrust, is not lot streinblish powerplant. Here an engine, after extensive maintenance, undergoes a sustained run up in one of the specially designed static test vectored out of the test cell which is located in a remote section of the base. If the engine checks out, it will be re-installed in one of the training aircraft



Above The ageing T-38s are expected to remain in service as Air Force trainers through the turn of the century. What is a common sight today—T-38s lined up and waiting for their students—was a common sight nearly thirty years ago and should be still after the year 2000

Right Williams Air Force Base boasts over 100 T-38s. Seen here is a section of the T-38 parking area









Painted on the Williams transient ramp is a 'red carpet' for visiting officers. Because of the vast distances involved, some Williams maintenance personnel commuse across the flight line by bicycle. In this scene one of man's earliest forms of mechanized transportation is juxtapposed with one of the most modern forms





Cessna Tweet



have to indulge in the often drab, low-visibility paint schemes for its aircraft. This Cessna T-37 Tweet sports a bright star with striped bars as well as the new two-tone paint scheme. Halving the aircraft in two distinct colours is to assist an outside observer in determining aircraft direction and attitude

Above The helpful hand of the crew chief conveying the helmet to a student getting ready for flight



Above Affart, the Tweet's instrument panel may intimidate the fledgling student plot, in abort order the average neworm adjusts to the Air Force flying environment and develops a reasonable comfort level in the T-37, which, after all, is a relatively simple and forgiving aeroplane to fly. Unlike the faster and generally more demanding Talon, the T-37 employs side-by-side seating so that student and instructor can see each other as well as talk to search of the that student and instructor can see each other as well as talk to search of the seater.

Right The undergraduate flying training squadrons are divided into flights. As might be expected, each flight has adopted a specific name and symbol. Represented here is Good Grief Flight of the 98th FTS. Note the shoulder patch that employs the Snoopy cartoon character









Student pilots have been receiving their initial jet training on the Tweet since the sturdy little T-37 entered service in 1967



Above As a T-30 taxies past in the background, the Tweet's flight crew gets ready for taxi in what has become a hapy code)th. The crew chief stands by with hearing protection, ready to combat the screeching while of the T-3T's engines. With the incessar high-pitched screeching of the Tweet's [90 engines and loud whine of the Talons [96-GD-8 engines, the Williams flight line noise level is incredible. The sound never let say ultimap weekflays and hearing procedure in

Right The clam-shell canopy is a distinctive feature of the T-37 which was designed expressly for primary flight training. Students average about 87 hours of flight time in the T-37.











Left Despite all the high tech in the Air Force of today, communications between T-37 flight crew and crew chief are reduced to hand signals when those unbearably loud j69s start. The classic thumbs up is still very much in use, its meaning still the same: all is go

Above The T-37 is slow for a jet aeroplane. Its two ancient Continental J69 engines each produce only 1025 pounds of thrust





Above left A true workhorse in Air Training Command, the T-37 has remained in service and has contributed to the pilot training effort longer than anyone imagined it would when it made its first flight in 1865. Mastering the basic skills for take-off and landing are among the first steps in the primary flight training syllabas. Here a T-37 shoots touch and-queen at nearby Coolidge Municipal syllabas. Here a T-37 shoots touch and-queen at nearby Coolidge Municipal Williams airpace and to handle the overflow traffic from the saturated

Below left. Aerobatics are part of the introduction to Air Force Spring. The T.32 is taken out to designated practice areas at specified suitudes for a fall series of basic aerobatic manoeuvres from loops to spins. This part of the flight training programme contributes to safety and build splicing skill and confidence. The demands on Air Force student pilots make them, upon graduation, among the best in the world. However, issuming to by can be fax. Access student pilot at the confidence of the pilot at the scale of the contribution of the pilot at the scale of the contribution of the pilot at the confidence of the pilot at the pilot a

Above Against the omnipresent Santan Mountains, one more T-37 in a neverending procession flares just prior to landing. In the distance is a T-38, perhaps an incentive to the T-37 students, for after successful completion in the primary phase they move up to the fighter-like Tallon



Above Not all tasks associated with flying at Williams Air Force Base are glamorous. Every inch of a weary Tweet gets a thorough cleaning in the washrack

Above right Keeping these old aeroplanes airworthy long past their originally intended service lives entalis keeping them clean. A special cleansing solution is sprayed on using a high pressure hose. The cleaning crew, which rotates periodically to maintain morale, done protective clothing. The Tweet's big brother, the Talon, occupies the adjoining both in this washrate.

Below right The Williams crows that toil away in oppressive heat at these less than glamorous jobs day in and day out keeping the trainers ready for flight are among the Air Porce's unsung heroes





The T-3T's durability is aptly described by a Williams maintenance technician. 'It is a tank', he declared, referring to Tweets in general. Here a starboard engine is being removed for inspection as part of the established maintenance programme. The engine removal can be accomplished in about half an hour



Each year a small number of foreign students from allied nations come to Williams to receive their undergraduate pilot training. Moreover, the T-37 has been employed as a trainer over the years by many foreign air forces



Above As Williams Air Force Base operates 91 Tweets, the parking ramp is filled with T-37s

Right The side-by-side seating arrangement makes for an especially effective primary flight training environment. The eye contact between student and instructor that this seating arrangement provides is quite valuable







Williams graduates approximately 350 students as Air Force pilots each year. This makes Williams not only the largest undergraduate pilot training facility in the Air Force, but also in the western world. The base's reputation for excellence, the appealing climate, and the proximity to a major urban centre make a Williams assignment very desirable. At 2000 about 100 climates and 100 climates are supported to the proximity of th



Basic training



Right Before getting their hands on the controls of an aeroplane, the student pilots are subjected to the rigours of life support training. Here a pilot traine is dragged over a field by his classmates to simulate the effects of an open parachite canopy for the support of the cleases on his harness to free binnself. Each student gets a few such

Above Though the student pilots are not required to make either an ejection or a parachute jump, they are trained for that eventuality should an emergency require such action. Here students jump of a pilatform to practice the proper impact absorbing techniques associated with a parachute landing











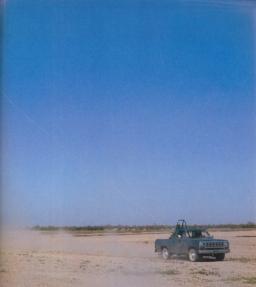
Left A more sophisticated simulation of a parachute landing is created through the use of this scaffolding device. Instructors from the base's aerospace physiology unit are on hand to teach the students proper procedures

Above The preflight training continues at the old Ritenhouse Auxiliary Air Field which is a Field which is a student are open further schooling in life support techniques. The class is being instructed in the use of the equipment in the standard issue Air Force policy is survival kit. The instructor is about to activate a high intensity flare which is why many of the students are



Above The culmination of the day's life support training is the series of three parasail rides per student. Each student is towed by an Air Force pickoup truck until a sufficient altitude is obtained. At just the right moment, the cable is released and the student floats down under the parasail, simulating a parachute fall

Right The truck races across a sandy field once used as a runway, kicking up a cloud of dust as the parasail lifts a student pilot





Above A student pilot's first flight at Williams Air Force Base is this rather docile parasail ride. The tow line is visible as the trainee hams it up during his ride by waving to his classmates below

Right When the inquisitive groundcrew arrives in the drop zone, the student pilot, no matter how hard the landing, invariably responds that it was a fun ride and that he is just fine. The attitude of the student pilots is uniformly gung-ho, and at this early stage in their training programme they are not about to let a bruise or bump dampen their spirits















Above let Bhortly after impact, each member of the class receiver a succinct, mid-mannered but firm critique from the wise and watchful Master Serpasari. Nathasial Dagas. The knowledge, dedication and skill of experienced enlisted personnel like 865 plags leve plus hat Percer training programme at Williams and the other ATC bases working at a level near perfection. The concern and professionalism of Might plags and his aeropase physiology colleagues serambling along the dusty landscape of Rittenhouse may years later zero the lowest drawn of which was reverse morticles.

Below left An eager student pilot getting strapped into the parasail harness for his first ascent at Williams Air Force Base

Above Among aviator rituals is the customary dunking of a student pilot upon completion of his first sloid flight. Like their predecessors, these young officers gleefully toss their newly soloed classmate into the water. Because of the volume of the Williams flight training activity, the dunking tank remains filled to the rim



Above All Air Force student pilots must be commissioned officers and virtually all are college graduates. The academic portion of the training programme is in its own way as demanding as the flying training. As can be seen here, the standard uniform even in the classroom is a flight suit.

Above right in one of the study halls, a wall mural depicts a simulated dogfight between an aggressor F-5 and an F-15 air superiority fighter. When it comes to requesting future assignments, many student pilots express a preference for fighters

Below right Students train together. Here two student pilots from the 99th FTS's Tipper Flight, with their distinctive Bunny shoulder patches, review their flight plan





Above Weather briefings are a standard part of flight planning at Williams

Above right The daily flight schedule for T-37s is posted on the board at the supervisor of flying desk in the headquarters building for the 96th and 96th PTSs. This system makes it easy to keep track of equipment and personnel

Below right The supervisor of flying desk on the T-38 side of the base serves the same purpose. Here flight crews are preparing to sign out aircraft for their training sorties











Left Last stop before the flight line is a check of the oxygen mask in a life support unit

Above Safety officer of the Devil Cats of the 97th Flying Training Squadron is Captain Scott Chapman. Among the more experienced instructor pilots, Capt Chapman was previously assistinged to Strategic Air Command as a B-32 pilot





Recognition and Graduation



Above As part of the day's formal retreat, the National Anthom is played and the flag is lowered. Later, at the ceremony's conclusion, the folded flag is presented to the retiring MSgt Hernandez in recognition of his years of devoted service

The Air Force pays tribute to those special people who devote a large to part of their lives in selfless service to their country. One late afternoon as the day's activities wound down at Williams, an eclectic group of onlookers formed on the grassy area in front of base headquarters. In a

moving ceremony, Master Sergeant Jose Hernandez officially retired after serving over twenty years in Air Force maintenance and engineering. MSgt Hernander is seen at attention on the right as the honour guard takes position



Right The 21 graduates of Williams class 89-05, like more than 25,000 Williams students before them, were presented their hard-earned silver wings. The 'pinning' ceremony is an informal affair, calling on parents or spouses to do the honours

Above The S2-week pilot training experience ends on this happy note for those highly motivated young officers with the tensarity and latent to stick with the programme. In addition to their shirty wings, the newly graduated pilot's carry with them their first assignments as Air Porce pilots. Whether it is not to SAC, TAC, MAC or back to ATC, these bright young pilots, beaming with boundless enthusiasm. Utilizated var the Air Force's future.











Left On graduation day parents can hardly help bubbling with pride over the accomplishment of their son or daughter. An instructor pilot of one of the graduates told his former pupil within earshot of the graduate's parents, "I'd fly with you any day"

Above Before long the dress blue uniforms will give way to sage green flight suits and these new Air Force pilots will engage in their chosen profession of flying





Base tour



Base include an impressive cluster of tall palm trees just inside the main gate

Above A mong the lease's static displays is this same Greenhed Lockhesed F. 20. Monthly State, Bell Frence is fast operational in fighter. These types ever a form of the properties of the pro







Above A snappy salute is likely to greet any authorized visitor to Williams Air Force Base—the largest undergraduate pilot training facility in the western world

Right In the adjacent town of Higley, the major thoroughfare leading to the base's main gate is appropriately designated Williams Field Road



Left The nearby community of Chandler is home to this F-86 monument



illiams A.F.B. ixiliary eld oolidge



 $\begin{tabular}{ll} \textbf{Above} \ Here \ RSU \ personnel \ have \ cleared \ a \ Tweet for \ landing, \ and \ watch \ it \ during \ roll \ out \end{tabular}$

Right The scope of the sprawling Williams complex is evident from the vantage point of the control tower. These young airmen have a great view and considerable responsibility







Above Always on alert, the flight line fire crew is prepared to move into action at a moment's notice. While the aged training aircraft fleet causes many alarms to be sounded, fortunately few are serious emergencies

Right Line maintenance is divided into sections. Here the so-called Apache unit stands ready as a T-38 taxies past









This impressive structure, tastefully landscaped with native cacti, houses both the T-3T and T-38 high teeft light simulators. Located elsewhere on base is the fair Force Human Resources Laboratory's Operations Training Division which is engaged in the development of even more sophisticated flight simulators



Above An old Link Trainer, symbolizing early efforts in flight simulation, occupies space in the open stairwell of the flight simulator building.

Right A student and instructor are riding this modern flight simulator through the 'rough air' generated by a computer. The unit's massive legs move briskly at the computer's commands, producing a realistic sense of motion for the officers enclosed in the imitation cockpits above





Badges of honour



Above The 97th Flying Training Squadron is divided into lour flights, once of which is called Statter. The officers of Skitter Tlight proudly wear their shoulder pack that sports a seeking not two T-80s in formation reasoning fine from the datal exhausts reasoning fine from the datal exhausts checker board scheme. The unique schecker board scheme. The unique schecker pack design belop to instill an esprit de corps which the Air Force hopes is student pilots will maintain through their myriad career assignments.

Right Each class passing through Williams designs in own shoulder patch. The artwork is amazingly creative. In a particularly colourful example that in mural form now decorates a wall in a squadron building, the sixth class of 1980 concored the improbable scene of a Tabush harting, over the planet small of the control o







lighted torch













Left The equations emblemes above here decrease the exteriors of the two equations buildings on edications for 3.77 florusings field from 4.6 flowly and the offer to 7.58 flowlangs field for 1.5 flowlangs for 1.5 flowlangs for 1.5 flowlangs flow for 1.5 flowlangs flow first flowlangs flow first flowlangs flowlangs

Above By caston, each incoming class paints one of the rocks in front of the base headquarter building. Here a class has chose the charming Otherles Schulz comic strip character Stoopy, which is often associated with aviation, as a sign of their presence on base. Upon the class's graduation a different paint scheme produced by yet another incoming class will decorate this rock. And so the tradition at Williams extrice on.

Tiger II

While Williams is known as an undergraduate pilot training base, it has played host to the 428th Tactical Fighter Training Squadron since 1864. The 428th provides advanced fighter training to pilots of allied nations and has used the Northrop F-SE Tiger II for this purpose. Here, four F-Se are shown in a relatively low formation pass









Above This Tiger II approaches the active runway as a primary flight student practices a touch-and-go in a T-37

Left The 452th is assigned to Luke Air Force Base's 405th Tactical Fighter Training Wing, but the 452th is Fa have been based at Williams because of the maintenance commonality between F-5s and T-58s. This is understandable since both aircraft types sites from the assem manufacture. Northrop Corporation, The Tiger II's general appearance resembles that of the Talon, but the F-35t is a disple-assist with more powerful 30f C-21 singuise that produce 500 pounds single-assist with produce 500 pounds.







Left Dummy bombs for practice bombing runs await installation

Above The fierce head of a growling tiger adorns the tail of a Tiger II. The relative low cost, simplicity, ease of maintenance, and good performance characteristics have made the F-SE a popular export item. In excess of 1000 Tiger IIs have been delivered to 19 nations











A couple of days preceding the base's farmal open house, the Blac Angels performed a full practice routine which constitued a private arithree for a best personnel bucky enough to be unoccupied at the time. Normal protocol calls for the base's severe office to gree the base members upon lating after their practices routine. With all other flight operations at Williams cancelled for the day, the Commander of the 80th Plying Training Wing, Colone Jerry Stecklein (on the left), extends a bearty pilot's welcome to the sixt performing members of



During an unusually quiet moment at Williams, Col Stecklein (centre) confers with some of the Blue Angels pilots



Above A Blue Angels team member hands out descriptive brochures to awestruck children

Right An exceedingly popular attraction wherever they perform, the Blue Angels pilots are typically surrounded by affectionate autograph-seekers at airshows across the country. Here team leader, Commander Pat Moneymaker, prepares to accommodate a crowd of admirers during Willie Day









Above 1eft The Blue Angels fly the McDonnell Douglas F/A-18 Hornet, an amazing aircraft that has both fighter and attack capabilities. Its naval aviation orientation is evident in the beefed up landing gear that must be able to withstand the repetitive shock of carrier landings

Below left Although the maintenance crews receive only a tiny share of the public's attention, their contribution to the team's success is invaluable. Here maintenance rewmen tend to the ungiamorous but nevertheless important details. Because of this superb maintenance the Blue Angels have never had to cancel a scheduled appearance due to technical malfunctions

Above The Blue Angels during their warm-up, like the student pilots on a normal day at Williams, are reduced to the old method of communication by hand signals







Left The famed Blue Angels six-ship delta formation graces the cloudless sky over Williams Air Force Base in the Arizona desert







Left Among the impressive displays at Willie Day '89 was the Rockwell B-1B bomber, shown here silhouetted against the Superstition Mountains upon arrival

Above With less than one hundred in the Air Force inventory, the awesome B-1B is an often sought but rarely obtained airshow aircraft. Williams was fortunate to secure one for its open house

Below The first stop for Williams graduates assigned to fighters is likely to be Holloman Air Force Base in New Mexico where they will receive fighter lead-in training in the AT-38B, a modified version of Northrop's dependable Talon. Note the glossy blue camouflage paint scheme of this Holloman-based B model on display during Willie Day.



Above Possible future Air Force pilots stepping up to the cockpit of a Williams 7-38 for a look inside. The annual Williams Air Force Base open house not only affords taxpayers from the surrounding communities an opportunity to see their tax dollars at work but allows young people like those pictured here to learn more about miliars avaision.

Right forms of the more enterprising sorts from the base set up a scale 7-38 model in the bisensensial Air Forer Thunderbrids air demonstration team colours along the static display line during Willie Day. The poster beckoms (GEF YOUR PICTURE FAREN IN AN AIR FORCE MINI-JET! Many shiften, smitten by the aviation bug, could be seen tugging on trouser legs and skirts for the chance to sit in the trainer modeus and induce emperously display.



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